

We claim:

1. A substantially purified nucleic acid molecule having a nucleic acid sequence selected from the group consisting of SEQ ID NO: 1 through SEQ ID NO: 51,470 or complements thereof.

2. A substantially purified nucleic acid molecule, said nucleic acid molecule capable of specifically hybridizing to a second nucleic acid molecule having a nucleic acid sequence selected from the group consisting of SEQ ID NO: 1 through SEQ ID NO: 51,470 or complements thereof.

3. A substantially purified nucleic acid molecule encoding a protein or fragment thereof, wherein said protein or fragment thereof is selected from the group consisting of an *Arabidopsis* protein or fragment thereof from Table 2.

4. The substantially purified nucleic acid molecule according to claim 3, wherein said *Arabidopsis* protein or fragment thereof is a homologue of a fungal protein or fragment thereof.

5. The substantially purified nucleic acid according to claim 3, wherein said *Arabidopsis* protein or fragment thereof is a homologue of a non-*Arabidopsis* plant protein or fragment thereof.

6. The substantially purified nucleic acid molecule according to claim 3, wherein said *Arabidopsis* protein or fragment thereof is a homologue of a mammalian protein or fragment thereof.

7. The substantially purified nucleic acid molecule according to claim 3, wherein said *Arabidopsis* protein or fragment thereof is a homologue of a bacterial protein or fragment thereof.